## PATENT COOPERATION TREATY

## **PCT**

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# INTERNATIONAL PRELIMINARY EXAMINATION REPUBLI

(PCT Article 36 and Rule 70)

Applicant RLL-27		ent's file reference	FOR FURTHER AC		e Notification of Transmittal of International eliminary Examination Report (Form PCT/IPEA/416)	)
	• • •	lication No.	International filing date (d	lay/month/yea	l	
PCT/IB	03/029	962	24.07.2003		25.07.2002	•
Internatio	onal Pate	ent Classification (IPC) or	both national classification an	nd IPC		
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Applicant	•					
		BORATORIES LIMI	TED et al			į
1. Th Au	nis inter uthority	national preliminary ex and is transmitted to th	amination report has been ne applicant according to A	prepared b Article 36.	by this International Preliminary Examining	
2. Th	nis REP	ORT consists of a tota	l of 5 sheets, including this	s cover she	eet.	
	bee	n amended and are the		or sheets co	e description, claims and/or drawings which ha ontaining rectifications made before this Autho ons under the PCT).	
Th		nexes consist of a tota			·	
			and the state of the state of the			
3. Th	ns repo	rt contains indications	relating to the following ite	ms:	·	
1	$\boxtimes$	Basis of the opinion				
11		Priority		4		
111		Non-establishment of	f opinion with regard to no	velty, inven	ntive step and industrial applicability	
IV		Lack of unity of inver				
V	⊠	Reasoned statement citations and explana	t under Rule 66.2(a)(ii) with ations supporting such stat	h regard to i tement	novelty, inventive step or industrial applicabili	ty;
VI		Certain documents of	ited			
VI		Certain defects in the	e International application			
VI	III 🗆	Certain observations	on the international applic	cation		
				•		
Date of s	ubmissi	on of the demand		Date of com	pletion of this report	
24.02.2	2004			09.08.200	04	
		g address of the internation	onal	Authorized C	Officer	aten.
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/02962

	<b>Basis</b>	of	the	rep	ort
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages				
	1-1	1	as originally filed			
	Cla	ims, Numbers				
	1-5	•				
	1-5	4	as originally filed			
2.	Wit lan	h regard to the <b>lang</b> u guage in which the in	lage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.			
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:			
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pub	lication of the international application (under Rule 48.3(b)).			
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).			
3.	Witl inte	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:				
		contained in the inte	rnational application in written form.			
		filed together with th	e international application in computer readable form.			
		furnished subsequently to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosu in the international application as filed has been furnished.				
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).			
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

see separate sheet

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E11.	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be nobvious), or to be industrially applicable have not been examined in respect of:

obv	rious), or to be industrially applicable have not been examined in respect of:
	the entire international application,
$\boxtimes$	claims Nos. 39-43 with respect to industrial applicability
	because:
×	the said international application, or the said claims Nos. 39-43 with respect to industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):

_	•
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear
	and description, claims of drawings (market particular elements below) of said claims nos, are so unclear
	that no meaningful opinion could be formed (specify):
	5 (-F

	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinior could be formed.
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 $\square$  no international search report has been established for the said claims Nos.

A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

 $\square$  the written form has not been furnished or does not comply with the Standard.

☐ the computer readable form has not been furnished or does not comply with the Standard.

# V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### 1. Statement

Novelty (N) Yes: Claims 2-5, 9, 10, 12, 20, 27-30, 34-43, 45-48, 50, 52, 53

No: Claims 1, 6-8, 11, 13-19, 21-26, 31-33, 44, 49, 51 and 54

Inventive step (IS)

Yes: Claims

1, 0-0, 11, 10-19, 21-20, 31-33, 44, 49, 51 and 5

No: Claims 1-54

Industrial applicability (IA) Yes: Claims 1-38, 44-54

No: Claims

#### 2. Citations and explanations

#### see separate sheet

## **INTERNATIONAL PRELIMINARY**

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**EXAMINATION REPORT - SEPARATE SHEET** 

### Re Item III

## Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 39-43 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement The following documents are referred to:

D1: Provigil® (modafinil) Tablets - FDA approved Draft Labeling, Cephalon, 1998

D2: FR 2 702 968 A D3: WO 02/30414 A

### L- Novelty

The present application does not meet the requirements of Article 33(2) PCT, because the subject-matter of claims 1, 6-8, 11, 13-19, 21-26, 31-33, 44, 49, 51 and 54 is not new.

- 1 Document D1 discloses Provigol® modafinil tablets and the inactive ingredients therein (page 1: "Description"). Of these excipients, magnesium stearate and lactose are considered to be surface active agents (for lactose, compare "sucrose", listed in the application on page 6, line 14 as non-ionic surfactant). Thus the subject-matter of claims 1, 6-8, 11, 17-19, 22-26, 31-33, 44, 49, 51 and 54 lacks novelty over D1.
- 2 Document D2 discloses modafinil microparticles comprising Tween 80 and optionally lactose or mannitol as surface active agents (examples 16 and 17, see also page 15, line 1 - page 16, line 7). Thus claims 1, 6-8, 11, 15, 16, 21, 24, 25, 44, 49, 51 and 54 are not new with respect to D2.
- 3 Document D3 discloses self-emulsifying drug delivery systems comprising modafinil and surfactants (page 3, lines 1-28; examples). Claims 1, 7, 11, 13-15, 22, 24, 25, 44, 49, 51 and 54 therefore lack novelty over D3.
- 4 Claims 2-5, 9, 10, 12, 20, 27-30, 34-43, 45-48, 50, 52 and 53 are new.

### III - Inventive Step

1 - Lacking novelty, claims 1, 6-8, 11, 13-19, 21-26, 31-33, 44, 49, 51 and 54 cannot be considered inventive (Article 33(3) PCT).

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

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2 - Regarding independent claim 39, D1 (see above) is considered the closest state of the art. D1 discloses that Provigil is indicated to improve wakefulness in patients with excessive daytime sleepiness associated with narcolepsy (page 10: "Indications and Usage").

Claim 39 differs from D1 in that the used dosage form comprises coarse and fine modafinil particles, wherein the fine modafinil particles have diameters less that 220 μm.

The size of the coarse particles is not defined, nor can any clear distinction be made between the coarse and the fine particles (even in the description the coarse and fine particles are only separated by a single point value (220 µm, see page 5, lines 22-24), so that the scope of the claims also includes normally distributed particle populations where there is no clear distinction between coarse and fine particles). Such a normally distributed particle population would not be expected to solve the problems relating to flow-properties, and thus no (unexpected) technical effect could be ascribed to the definition of this specific particle size.

As part of the invention does not appear to solve the problem of the invention, no inventive step can be acknowledged for the subject-matter of claim 39.

3 - The incorporation of the additional features contained in dependent claims 2-5, 9, 10, 12, 20, 27-30, 34-38, 40-43, 45-48, 50, 52 and 53 into the corresponding independent claim does not result in subject-matter which would be considered as involving an inventive step, because said features are not described as being related to a particular technical effect and, therefore, represent only trivial modifications.

### III - Industrial Applicability

Claims 1-38 and 44-54 are considered to comply with Article 33(4) PCT (see also Item III above).